

[illegible]

4. A data processing apparatus according to claim 3, further comprising setting means for adaptively setting the weight function.

5. A data processing apparatus according to claim 4, further comprising estimation means for estimating a level of noise contained in the input data, wherein said setting means sets the weight function according to the estimated level of noise.

6. A data processing apparatus according to claim 1, wherein said processing means calculates the output data by adding the similar input data which are weighted according to temporal or spatial proximity between the similar input data and the given input data.

7. A data processing apparatus according to claim 6, wherein said processing means applies a weight to the similar input data by multiplying the similar input data with a predetermined weight function.

8. A data processing apparatus according to claim 7, further comprising setting means for adaptively setting the weight function.

9. A data processing apparatus according to claim 8, further comprising estimation means for estimating a level of noise contained in the input data, wherein said setting

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11. A data processing apparatus according to claim 1, wherein said extraction means extracts input data which is temporally or spatially close to the given input data as the similar input data.

13. A data processing apparatus according to claim 12, further comprising setting means for adaptively setting the predetermined value.

14. A data processing apparatus according to claim 13, further comprising estimation means for estimating a level of noise contained in the input data, wherein said setting

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16. A data processing apparatus according to claim 1, wherein said processing means calculates the output data by performing approximate processing using the similar input data.

17. A data processing apparatus according to claim 16,
wherein said processing means performs the approximate
processing according to a predetermined model.

18. A data processing apparatus according to claim 17,
wherein said processing means performs the approximate
processing according to a model represented by a linear
expression.

19. A data processing method for processing input data and outputting the processed data as output data,

[illegible]

a processing step of processing the input data according to the extracted similar input data.